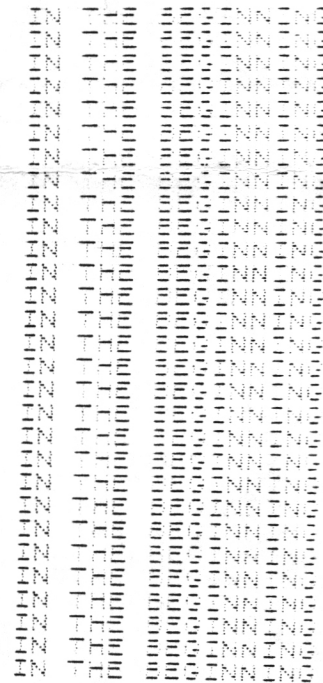
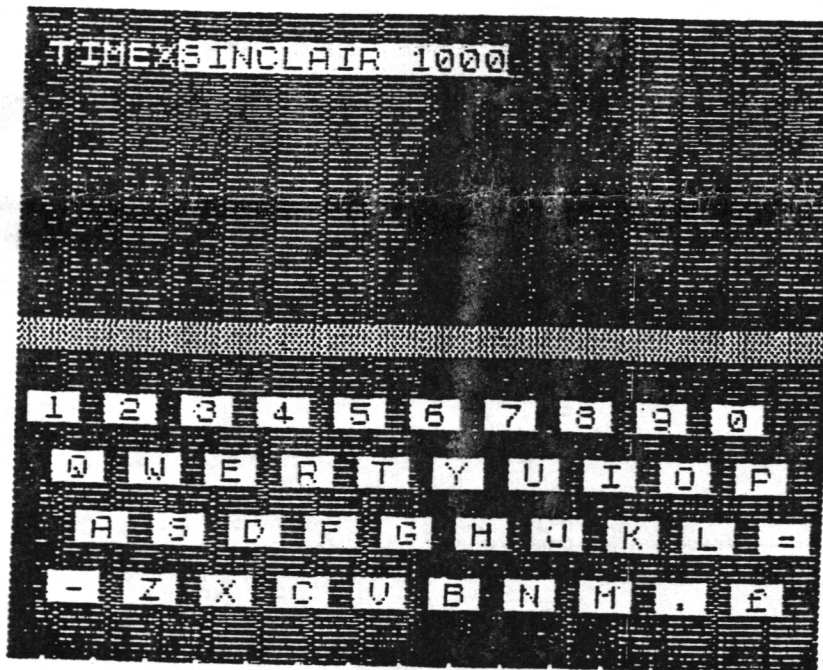


# LISTing Newsletter

May 1994

Newsletter of the Long Island  
Sinclair/Timex Users Group

Next Meeting  
May 22, 1994



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\* LIST \* LIST \* LIST \* LIST \*  
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*Annual Dues \$16.00*

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# LIST OFFICERS

+++++  
 PRES. HARVEY RAIT  
 U.P. BOB GILDER  
 TRES. ROBERT MALLOY  
 COR.SEC. JOHN PAZMINO  
 EDITOR. FRED STERN  
 LIBR. TOM SKAPINSKI  
 +++++

PLEASE SEND INQUIRIES TO:  
 LIST  
 MR. HARVEY RAIT  
 5 PERI LANE  
 VALLEY STREAM, N.Y. 11581

PLEASE SEND SUBMISSIONS TO:  
 LISTING  
 MR. FREDERIC STERN  
 P.O. BOX 264  
 HOLBROOK, N.Y. 11741

## COMING EVENTS:

\*\*\*\*\*

MAY. 14, 1994 NEWPORT QL SHOW

MAY. 22, 1994 LIST MEETING.

\*\*\*\*\*  
 \*\*SPECIAL NOTICE\*\*  
 \*\*\*\*\*

THE NEXT MEETING WILL BE HELD AT  
 THE ICE CREAM DISPENSARY  
 (HARVEY'S STORE)  
 334 DOGWOOD AVENUE  
 FRANKLIN SQUARE, N.Y.  
 TEL: 516-486-1090

DIRECTIONS; SOUTHERN STATE PKWY  
 TO EXIT 17 NORTH (HEMPSTEAD AVE)  
 GO TO FIRST TRAFFIC LIGHT,  
 LEFT TURN ON TO CORNWALL,  
 NEXT TRAFFIC LIGHT, BEAR RIGHT  
 ON TO DOGWOOD AVENUE. GO 1 MILE  
 TO THE ICE CREAM DISPENSARY, IN  
 A SMALL SHOPPING CENTER ON THE  
 LEFT SIDE OF THE ROAD.

## MEETING MINUTES

\*\*\*\*\*  
 REPORTED BY: TOM SKAPINSKI.  
 APR. 10, 1994

\*\*\*\*\*  
 THE MEETING WAS CALLED TO ORDER  
 BY HARVEY AT 2:00PM

IN THE MAIL, WE RECEIVED 1 RE-  
 NEWAL.

WE ALSO RECEIVED A LETTER FROM  
 AN AUSTRIA SPECTRUM USERS GROUP  
 REQUESTING AN EXCHANGE OF PRO-  
 GRAMS AND INFORMATION. HARVEY  
 VOLUNTEERED TO ANSWER IT.

OUR NEXT MEETING HAS BEEN  
 CHANGED TO MAY 22, 1994 TO  
 ACCOMMODATE OUR MEMBERS WHO ARE  
 GOING TO THE QL SHOW IN NEWPORT.

THE MEETING ENDED AT 3:00 PM.

## CLASSIFIEDS

\*\*\*\*\*  
 THIS CLASSIFIED SECTION IS  
 AVAILABLE TO ALL LIST MEMBERS  
 FREE OF CHARGE.  
 THE ONLY RESTRICTION IS THAT  
 IT IS TO BE USED ONLY FOR THE  
 SEEKING, SELLING OR SWAPPING  
 OF SINCLAIR, TIMEX OR MICROACE  
 COMPUTER EQUIPMENT, PERIPHERALS  
 AND SOFTWARE.  
 LISTING, LIST, AND ITS OFFICERS  
 DO NOT ENDORSE, WARRANTY, OR  
 GUARANTEE ANY OF THE ITEMS  
 LISTED IN THIS CLASSIFIED  
 SECTION

\*\*\*\*\*

THE FOLLOWING PUBLICATIONS ARE  
 AVAILABLE ONLY THROUGH LIST:

ZX-81/TS1000 TECHNICAL TIDBITS  
 TECHNICAL TIDBITS PART II  
 SAVINGS AND LOAD OF THE TIMEX  
 COMPUTER  
 \$4.00 EACH.

FOR SALE: TIMEX PRINTER PAPER,  
 3 ROLLS - \$5.00+ POSTAGE.  
 CONTACT: FRED STERN 516-737-0963  
 EVENINGS AND WEEKENDS.

I AM LOOKING FOR AN AERCO DISK  
 DRIVE INTERFACE FOR THE TS1000.  
 I WILL CONSIDER A PURCHASE  
 EITHER WITH OR WITHOUT DRIVES.  
 I WILL EVEN CONSIDER A U-REPAIR.  
 FRED STERN 516-737-0963. EVEN-  
 INGS AND WEEKENDS.

FOR SALE; COMMODORE C-64 COM-  
 PUTER, 2 DISK DRIVES, OKIDATA  
 COLOR PRINTER, GAMES. ASKING  
 \$150.00, CALL MR. MARCELLO  
 GALLUZZO, 516-763-2650 EVENINGS.

## A FINAL WORD

\*\*\*\*\*  
 MY NAME IS FRED STERN AND I AM  
 THE EDITOR OF THIS EDITION OF  
 LISTING.

THANK YOUS TO TOM SKAPINSKI, AND  
 BOB GILDER FOR THERE HELP AND  
 CONTRIBUTIONS TO THIS ISSUE.

A VERY SPECIAL THANK YOU TO  
 HARVEY FOR HIS HOSPITALITY, AND  
 THE USE OF HIS STORE FOR OUR  
 MEETING. ALSO TO MIKEY FOR HIS  
 CONTRIBUTIONS.

SEE YOU ALL AT THE NEXT MEETING.

MAY 1994						
SU	MO	TU	WE	TH	FR	SA
	1	2	3	4	5	6
	8	9	10	11	12	13
	15	16	17	18	19	20
22	23	24	25	26	27	28
29	30	31				
LIST MEETING 15TH						

## QL CORNER

This month I would like to share with our readers of LIST an idea. This idea has been proven to work by myself and it is about printing those characters your printer conceals within its Graphic Character sets.

Before we enter into the world of printing from Graphic Character sets, I feel that some of my printer background may be in order. At the end of 1992 I purchased a printer, the ITOH 8510-A PROWRITER printer. It was purchased instead of an EPSON because it was a 'well built' device; approximately twice the weight of an EPSON FX80 printer. Ribbons for this printer were also moderately priced with comparison to the EPSONs.

When it arrived, I immediately connected it to my ZX81 through an interface kit purchased from a 'cottage industry' kit maker. I forget the name of this supplier as well as the interface nomenclature. Any way the printer did print out correspondence for me and I was in 'heaven'.

There were two manuals supplied with the printer. After I read through both of these manuals, it dawned upon me that there was more to a computer printer than just printing plain text. Within the manual's contents, printer control codes were discussed in detail. Now I began to think about programming the computer to program the printer for high-lighting text with Bold characters, Double-width and double-height characters, pitch changes from 10 character per inch to 12 characters per inch and proportional printing and some other types of characters.

The other type of available characters had to be accessed from the printer's Graphic Character set and if this wasn't enough to deal with, I began defining Graphic Characters with Bit Image graphic characters. I really began to think very hard about what I was about to get into. Well, I spent approximately three weeks devoting all of my available time for this project and I was quite happy with the results received!

Several printers later I purchased the Panasonic KX-P 1124 printer as this device was capable of letter quality work in combination with five different character pitches and six different character fonts. There are four Graphic Character sets, EPSON 1 and 2 and IBM 1 and two, providing many graphic characters which I could - and I now use them.

I am sorry about the 'shaggy dog' story above - I want you to know about my printer background and that what I will explain to you is REAL and does work!

Before you attempt to extract characters from a Graphic Character set from within your printer, you must first send a short code sequence to the printer advising it that you want to access a Graphic Character set; CHR\$(27); CHR\$(116); CHR\$(1) which alerts the printer that you are ready to select an Alternate Character set.

Then another sequence is given: CHR\$(27); CHR\$(54) to enter into the EPSON #2 Graphic Character set. The above codes are identical with IBM character sets.

All of the Graphic character sets have the same ASCII characters used for printing text which appear on the QL's keyboard with one exception. The £ character isn't available on the EPSON #1 Graphic Characterset. If you view your copy of Quill's printer\_dat file, you will see that Translate 1 provides the £ character to be printed from International character set #3 (UK) and after the £ character has been printed, it returns to International character set 0 (USA). Within Graphic Characterset #2, the £ character can be printed out with codes CHR\$(27); CHR\$(156).







Don't worry if you do not get satisfactory results at first - try again! If you are afraid that you will screw up your printer, again do not worry. Just switch off your printer for a second or two and then switch it on. It will now be in the default character set mode.

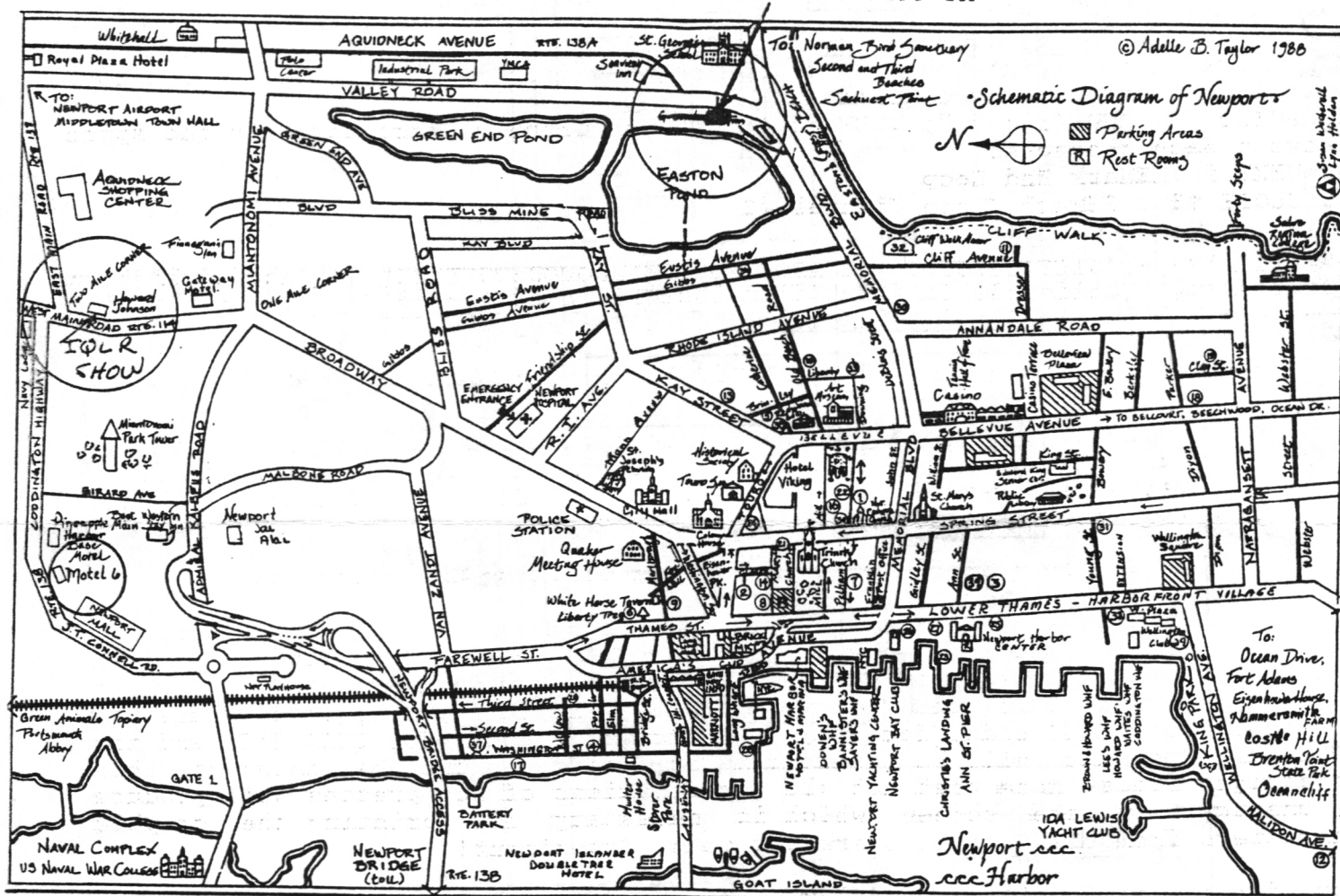
If you have good results with this method, prepare a simple SuperBASIC program for accessing the Graphic Character set of your choice and add it to your BOOT program using lines 100, 110 and 120 from the above SuperBASIC listing. Just change the line numbers to suit your BOOT program.

If I have aroused your interest about printing from the graphic table and you would like me to continue on with this subject, please contact me through LIST or at my home address:

Bob Gilder 69 Jefferson Place, Massapequa, NY 11758

The following map of Newport, RI, depicting the hotel locations for the IQLR show in Newport, May 14th, has been submitted by LIST member Joe La Punzina. I hope to see some of you in Newport. Bob Gilder

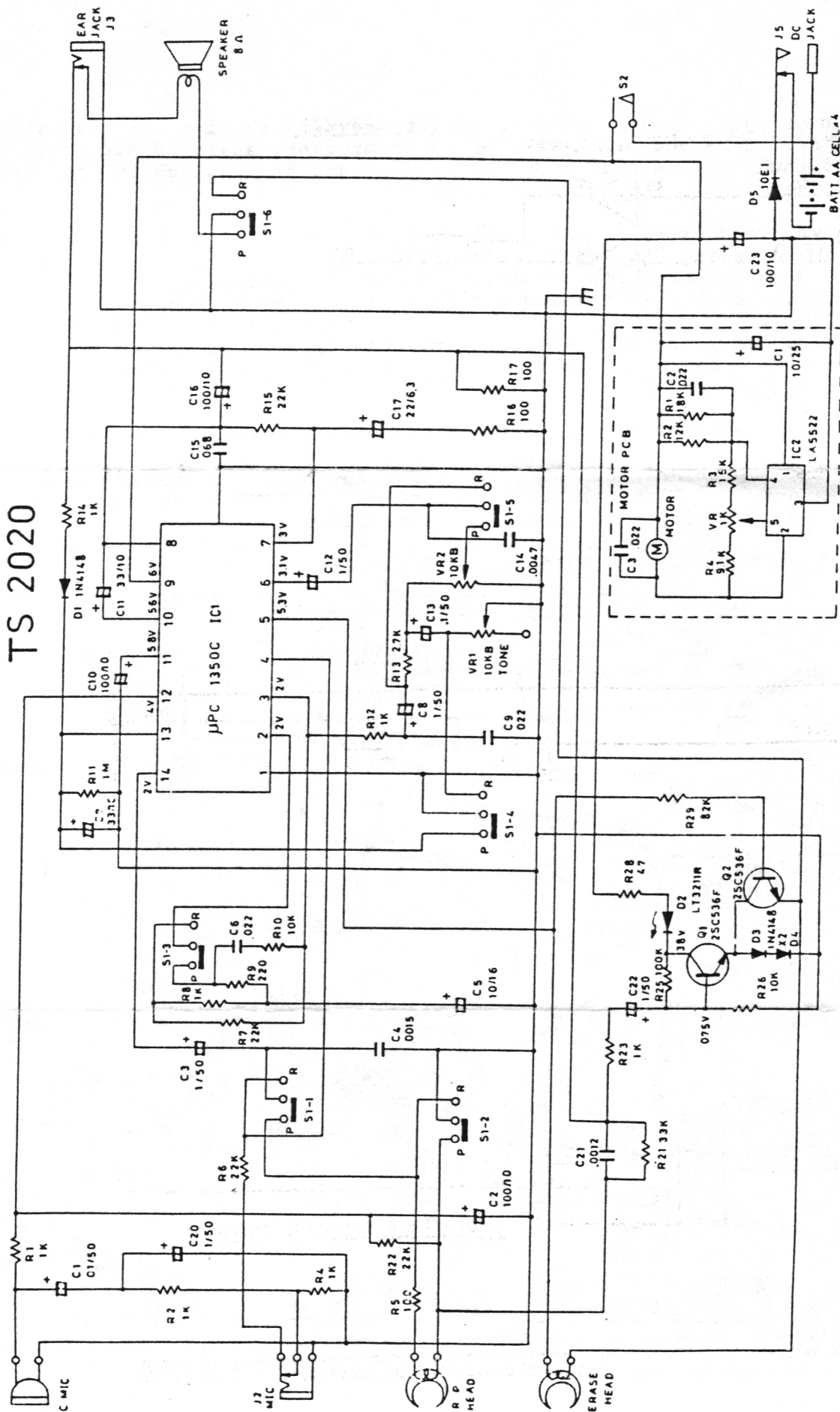
The Newport Beach Club - Dutch treat dinner at 7:00 PM



TRAFFIC INFORMATION: Right Turn on Red Light, After Stop — EXCEPT where prohibited. Pedestrians on crosswalks have right-of-way. NO DRINKING on public streets, sidewalks, parks, in cars, ALL vehicles MUST travel WITH traffic ... observe one way streets! No Parking (Cars Towed) in Fire Lanes, Loading Zones, private lots, driveways, yellow curbs. Newport EMERGENCY: 847-1212 ... Fire/Rescue: 846-2211 ... Hospital, 846-6400.

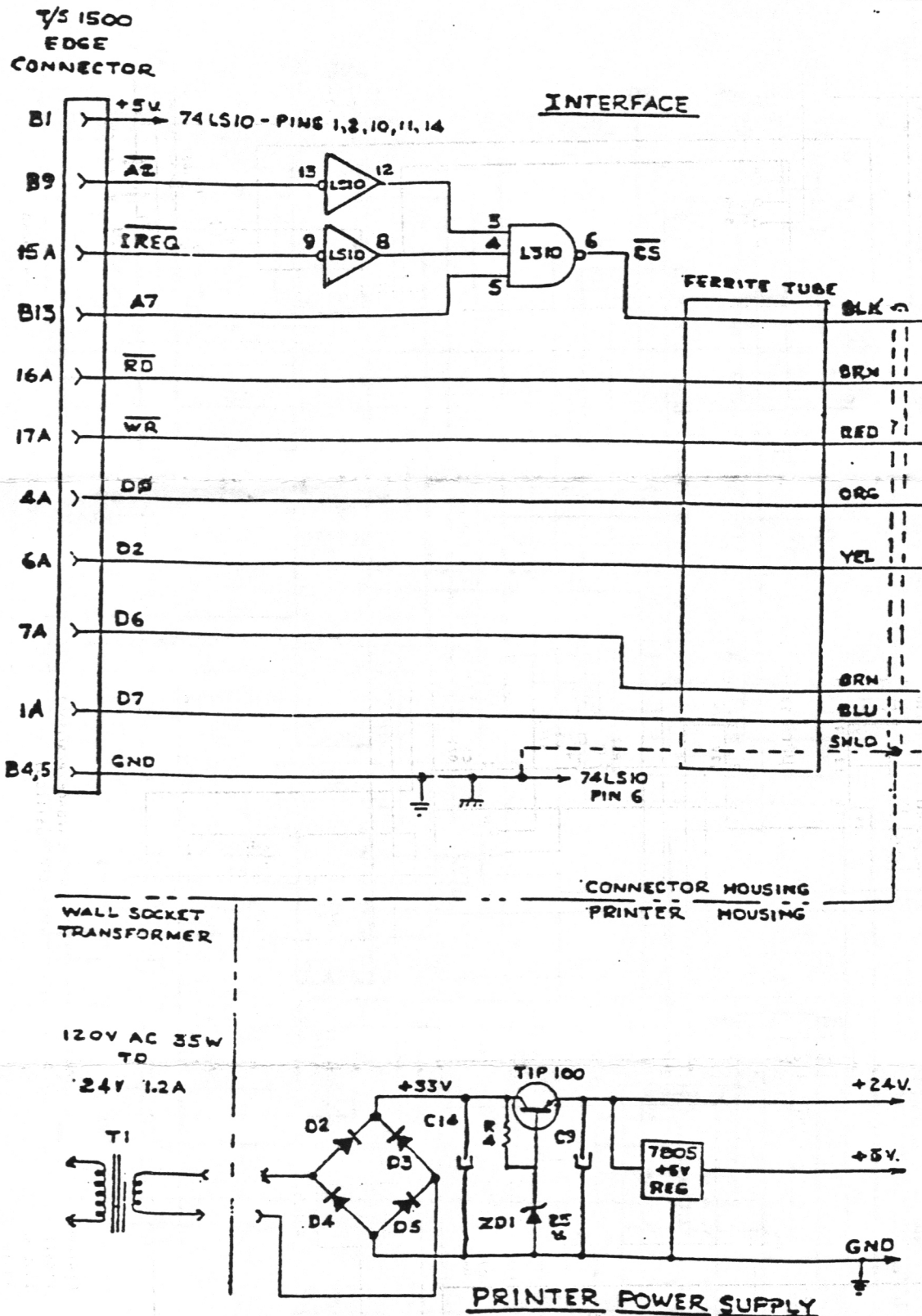
# SCHEMATIC DIAGRAM

TS 2020



- NOTES
- 1 ALL RESISTANCE VALUES ARE IN  $\Omega$  K = 1000  $\Omega$  M = 1000K $\Omega$
  - 2 ALL CAPACITANCE VALUES ARE IN  $\mu$ F P = 10  $\mu$ F
  - 3 ALL RESISTORS ARE 1/6 WATT UNLESS OTHERWISE SPECIFIED
  - 4 VOLTAGES MEASURED FROM POINT INDICATED TO CHASSIS GROUND WITH V.T.M WITH VOLUME AT MIN AND NO SIGNAL
- S1 RECORD/PLAYBACK SWITCH (PLAYBACK POSITION)  
 S2 POWER ON/OFF SWITCH (OFF POSITION)  
 D5 10E1  
 --- PLAYBACK POSITION  
 IC1 JPC1350C  
 IC2 LA5522  
 Q1 LT3211R  
 Q2 2SC536F  
 D1 IN4148  
 D3 2SC536F  
 D4 IN4148

# T/S 2040 PRINTER SCHEMATIC



Thanks to our newsletter exchange program, we can bring you these 2040 schematics.

FIGURE 10-5 T/S 2040 PRINTER

840926 TRACED BY JIM LRY  
840509D  
BT006 ORAFELT







122—Graphics shifted 8.

```

75 DATA 4,4,4,4,0
76 RESTORE 75; FOR J=1 TO 4: R
EAD X: BEEP .25*(1+J+(J-1)),X: N
EXT J
80 PRINT AT 21,0: FLASH 1: INK
3: PAPER 5:"SCORE:";SC;.standb
y for take-off": PAUSE 300
81 PAPER 0: FOR J=20 TO 0 STEP
-1
82 PRINT AT J+1,J+1:" "AT J
J: INK 1+INT (RAND#6): " "
84 NEXT J: GO TO 20
100 IF J=21 THEN RETURN : IF S=
1 THEN LET M=J+1
101 IF S=1 THEN LET M=J+2-(J=20)
102 IF S=1 THEN LET H=K+2: IF S
=1 THEN LET D=D/2
103 IF S<0 THEN RETURN
104 PRINT AT M-1,H:" "AT M,H:
Y: BEEP .006,21-M: LET M=M+1
105 IF SCREEN$(M,H)<>" " THEN
GO TO 119
106 IF M<21 THEN RETURN : IF M>
21 THEN LET M=21: GO TO 120
119 LET SC=SC+10
120 IF M=21 THEN LET M=21
121 PRINT AT M-1,Y: PAPER 0:" "
FOR N=7 TO 0 STEP -1
122 PRINT AT M,H: INK N:" ": BE
EP .02,N-12
124 NEXT N
126 LET S=-1: LET D=D*2: RETURN
140 PRINT AT J,K-2:" "
142 DATA 0,0,0,-5,-5,-5,0
144 RESTORE 142: INK 2
146 FOR N=1 TO 7: READ X: CIRCL
E K*6+4,(21-J)*6,N: BEEP .05*(1+
S*(N=7)):X: NEXT N
148 PRINT AT 11,10: PAPER 6: IN
K 1:"SCORE:";SC
9996 STOP
9997 REM citybomb
9998 REM © E.WRIGLEY 29/7/82
9999 SAVE "citybomb". RUN

```